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APPLICATION NO.	FII	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/616,486	10/616,486 07/08/200		Jesse T. Quatse	167.001	9731
9651	7590	10/21/2005		EXAMINER	
ELLIOT B.			LASTRA, DANIEL		
5001 HARBORD DRIVE OAKLAND, CA 94618				ART UNIT	PAPER NUMBER
OAKLAND,	CA 740	10		3622	

DATE MAILED: 10/21/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)				
, 4 , 3			QUATSE ET AL.				
Office Action Summary		10/616,486					
	,	Examiner	Art Unit				
	The MAILING DATE of this communication	DANIEL LASTRA	3622				
Period fo		n appears on the cover sheet with th	e correspondence address				
WHIC - Exter after - If NO - Failu Any r	ORTENED STATUTORY PERIOD FOR R CHEVER IS LONGER, FROM THE MAILIN asions of time may be available under the provisions of 37 CI SIX (6) MONTHS from the mailing date of this communication period for reply is specified above, the maximum statutory per te to reply within the set or extended period for reply will, by eply received by the Office later than three months after the ad patent term adjustment. See 37 CFR 1.704(b).	IG DATE OF THIS COMMUNICATI FR 1.136(a). In no event, however, may a reply be on. eriod will apply and will expire SIX (6) MONTHS fr statute, cause the application to become ABANDO	ON. The timely filed Tom the mailing date of this communication. The property of the communication of the communication.				
Status							
1\⊠	Posponsive to communication(s) filed on	01 August 2005					
· · · · · · · · · · · · · · · · · · ·	Responsive to communication(s) filed on <u>01 August 2005</u> . This action is FINAL . 2b) ☐ This action is non-final.						
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<u>ا</u>	Since this application is in condition for allowance except for formal matters, prosecution as to the ments is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
closed in accordance with the practice under Lx parte Quayle, 1955 C.D. 11, 455 C.G. 215.							
Disposition of Claims							
4)⊠)⊠ Claim(s) <u>7-27</u> is/are pending in the application.						
	4a) Of the above claim(s) is/are withdrawn from consideration.						
5)	Claim(s) is/are allowed.						
	Claim(s) <u>7-27</u> is/are rejected.						
7)	Claim(s) is/are objected to.						
8)□	B) Claim(s) are subject to restriction and/or election requirement.						
Applicati	on Papers						
9)□ '	The specification is objected to by the Exa	miner					
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
	ınder 35 U.S.C. § 119						
	•						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).							
a)L	a) All b) Some * c) None of:						
	1. Certified copies of the priority documents have been received.						
	2. Certified copies of the priority documents have been received in Application No						
	3. Copies of the certified copies of the priority documents have been received in this National Stage						
* 0	application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.							
Attachment	` '	_					
1) Unotice of References Cited (PTO-892) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date							
	nation Disclosure Statement(s) (PTO-1449 or PTO/S	B/08) 5) D Notice of Informa	al Patent Application (PTO-152)				
Paper No(s)/Mail Date 6) Other:							

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DETAILED ACTION

1. Claims 7-27 have been examined. Application 10/616,486 **HIGH-PRECISION CUSTOMER-BASED TARGETING BY INDIVIDUAL USAGE STATISTICS** was filed 07/08/2003.

Response to Amendment

2. In response to Non Final Rejection filed 01/31/2005, the Applicant filed an Amendment on 08/01/2005, which amended claims 7, 8, 10, 18, cancel claims 1-6 and added new claims 23-27. Applicant's amendment overcame the Section 101 rejection but did not overcome the Section 112 rejection for claim 20.

Claim Rejections - 35 USC § 101

3. 35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

Claims 7-19 and 23-27 are rejected under 35 U.S.C. 101 because based on the theory that the claim is directed to neither a "system" nor a "method," but rather embraces or overlaps two different statutory classes of invention set forth in 35 U.S.C. 101 which is drafted so as to set forth the statutory classes of invention in the alternative only. Id. at 1551. Claim 23 is directed to a system and dependent claims 7-17 and 24-27 are directed to a method. Claim 18 is directed to a system and dependent claim 19 is directed to a method.

Claim Rejections - 35 USC § 112

4. The following is a quotation of the second paragraph of 35 U.S.C. 112:

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The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 7-19 and 23-27 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. A single claim which claims both a system and the method steps of using said system is indefinite under 35 U.S.C. 112, second paragraph. In Ex parte Lyell, 17. USPQ2d 1548 (Bd. Pat. App. & Inter. 1990). Claim 23 is directed to a system and dependent claims 7-17 and 24-27 are directed to a method. Claim 18 is directed to a system and dependent claim 19 is directed to a method.

Claim 20 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. Claim 20 recites "database customer" which makes the claims indefinite. For purpose of art rejection the Examiner would read "database customer" to mean "customer".

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claim 23 is rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. Claim 23 recites "a score for each pairing of customer" and "the customer of the pairing will make a purchase". For purpose of art

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rejection, said limitation would be interpreted identifying an individual customer and associating to said customer promotional offers based upon the probability that said customer would prefer said offers selected specifically for him or her.

Claim Rejections - 35 USC § 102

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 7-12, 18 and 20-27 are rejected under 35 U.S.C. 102(e) as being anticipated by Sridhar et al (US 2003/0208754).

As per claim 23, Sridhar teaches:

In an electronic system for distributing promotional offers, a method of targeting a plurality of customers from a customer database for distribution of limited quantities of promotional offers from a plurality of promotional offers in accordance with one or more constraints on the distribution of said promotional offers, comprising:

generating a customer-offer score matrix associating a score for each customer from said customer plurality and offer from said promotional offer plurality, said score measuring a probability that the customer will make a purchase in accordance with the

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offer (see paragraph 116 "purchase prediction: The probability that a subscriber will purchase a particular product in a particular week is referred a purchase prediction" i.e. customer-offer score);

identifying the highest score in said matrix and identifying any customers substantially scoring said highest score (see paragraph 169 "select the ad of the product with largest purchase prediction for this subscriber from the products associated with the selected event");

generating a personalized offer distribution list in said electronic system for each said identified customer, wherein the offers associated with said highest score and paired with said identified customer are assigned to said identified customer's personalized offer distribution list in accordance with said one or more constraints (see paragraph 106, 156 169-170, "select product with next largest purchase prediction from product list of the current event and repeat step 19 to 27 until all products in the list are covered" see paragraph 191). Sridhar objective is to draw a customer's attention to a product which has the largest purchase prediction for said customer (see paragraph 156) and selects an ad from a set of ads pre-selected for said customer (see paragraph 106) where said ads are delivered to said customer in a sequence (i.e. from highest to lowest purchase prediction probability) from the products associated with a selected event (see paragraph 169-170). Therefore, Sridhar teaches a customer-based system as defined by Applicant's specification in page 7, lines 10-15 where products' offers are selected for each customer and where said offers are presented to said customer in a

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sequence based upon said offers' purchase prediction or score (i.e. probability that an offer would be accepted by a customer), similar to the Applicant's claimed invention.

successively repeating said identifying and assigning steps for the next highest score in said matrix in accordance with said one or more constraints (see paragraphs 169-170).

As per claim 24, <u>Sridhar</u> teaches:

The method of claim 23, wherein said promotional offers relate to a plurality of products organized in taxonomic groupings, and the method further comprises:

basing the scores associated with one or more of said offers on the grouping probability that a customer will purchase any product in a given taxonomic grouping (see paragraph 133).

As per claim 25, Sridhar teaches:

The method of claim 24 wherein a score is based on said grouping probability and the offer associated with said score is for a product included in said given taxonomic grouping (see paragraph 133).

As per claim 26, Sridhar teaches:

The method of claim 24 wherein a score is based on said grouping probability and the offer associated with said score is for a product not included in said given taxonomic grouping (see figure 4C).

As per claim 27, Sridhar teaches:

The method of claim 23 wherein said one or more constraints include a limit on the number of offers delivered to any individual customer and said method further

comprises: performing said assigning step only a number of times equal to said limit (see paragraph 68).

As per claim 7, Sridhar teaches:

The method of claim 23, wherein said promotional offers relate to a plurality of products organized in taxonomic product grouping, and the method further comprises:

providing a product grouping probability profile associating with each said product grouping a measure of the probability that a customer will purchase a product from said product grouping (see paragraphs 213-229); and

deriving said *score* for each said combination of customer and promotional offer from the measure of probability associated with each product grouping containing a product subject to the promotional offer (see paragraphs 175-201).

As per claim 8, <u>Sridhar</u> teaches:

The method of claim 7, further comprising:

providing access to a transaction history database for at least a substantial portion of said plurality of customers, wherein the database associates with each customer of said substantial portion an identification of transactions engaged in by the customer and an identification of products previously purchased by the customer in each of the transactions (see paragraphs 71 and 134);

providing a transaction summary data structure associating with each said customer the total number of transactions the customer has engaged in and the numbers of transactions including each said product grouping (see paragraphs 140-159);

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averaging the product groupings per transaction from said transaction summary data structure for at least a portion of said customers (see paragraphs 140-159); and

deriving said measure of probability associated with each said product grouping from the averaged product groupings per transaction for the associated product grouping (see paragraphs 140-159).

As per claim 9, Sridhar teaches:

The method of claim 7, further comprising:

normalizing said product grouping probability profile for an individual customer to reflect a relative probability of said individual customer purchasing from a product grouping with respect to an average probability for a customer to purchase from said product grouping (see paragraphs 70, 140-160).

As per claim 10, Sridhar teaches:

The method of claim 7, further comprising:

applying preprogrammed targeting criteria embodying a marketing strategy to said product grouping probability profile to provide a profile of offer scores (see paragraph 160)

As per claim 11, <u>Sridhar</u> teaches:

The method of claim 10, wherein

said marketing strategy includes at least one targeting product grouping and a promoted product grouping linked to said at least one targeting product grouping; and said promotional offers are distributed only to customers having a high probability of acceptance for said at least one targeting product grouping (see paragraphs 175-178).

As per claim 12, Sridhar teaches:

The method of claim 11, further comprising: providing a taxonomy of said product groupings; wherein said at least one targeting product grouping is defined in reference to said taxonomy (see paragraph 70, 133, figure 4C).

As per claim 18, Sridhar teaches:

In an electronic system for distributing promotional offers, a method of adjusting the distribution of limited quantities of promotional offers from a plurality of promotional offers to a plurality of customers comprising:

providing, for each combination of customer and promotional offer from said pluralities, a measure of the acceptance probability that the customer will accept the promotional offer (see paragraphs 175-201),

presenting the measures of acceptance probabilities for an individual customer in a graphical display on said electronic system (see figure 7),

wherein said graphical display includes a plurality of graphic elements, one said graphic element being associated with each said measure of acceptance probability provided for said individual customer at least for the highest ranking of said measures (see paragraph 116);

enabling adjustment of said measures of acceptance probability by movement of the associated graphic elements; and selecting a limited quantity of offers from said plurality of offers for distribution to said individual customer, wherein said limited quantity of offers are selected substantially in descending order of said measures of

acceptance probabilities as adjusted in said enabling step (see paragraphs 164-201; see figure 7).

As per claim 20, Sridhar teaches:

A method of distributing limited quantities of promotional offers from a plurality of promotional offers to a plurality of customers utilizing a transaction history database for at least a substantial portion of said plurality of customers, wherein the database associates with each database customer an identification of transactions engaged in by the database customer and an identification of products previously purchased by the database customer in each of the transactions, said method comprising:

deriving a historical purchase probability profile from said transaction history database for at least a portion of the customers in said database and for a plurality of product groupings in said database, said historical purchase probability profile providing for each individual customer and for each individual product grouping a measure of the probability that said individual customer will purchase a product from said individual product grouping (see paragraphs 64, 71, 116);

applying a statistical model to said purchase probability profile for a given individual customer to determine estimated probabilities that said given individual customer will purchase one or more products from said product groupings (see paragraph 134-135);

selecting a limited quantity of offers from said plurality of offers for distribution to said given individual customer (see paragraphs 178, 212);

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wherein said limited quantity of offers is selected substantially in descending order of said estimated probabilities (see paragraphs 222-229).

As per claim 21, Sridhar teaches:

The method of claim 20 wherein said statistical model is an empirical Bayesian statistical model (see paragraph 135).

As per claim 22, Sridhar teaches:

The method of claim 20 wherein one or more of said product groupings includes one and only one product (see paragraph 191).

Claim Rejections - 35 USC § 103

- 6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 13-17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sridhar et al (US 2003/0208754) in view of Deaton et al (U.S. 6,684,195).

As per claim 13, Sridhar teaches:

The method of claim 11, but fails to teach wherein said marketing strategy includes a MoveStock strategy. However, <u>Deaton</u> teaches a MoveStock strategy (see column 105, lines 63-67). Therefore, it would have been obvious to a person of ordinary skill in the art at the time the application was made, to know that <u>Sridhar</u> would include a

MoveStock marketing strategy, as taught by <u>Deaton</u>. It would important to <u>Sridhar</u> to include arbitrary grouping of products, such as hot cereals, because if a single product in the grouping of products is set up as a criteria and someone is infrequent to that criteria, a manufacturer might believe the customer is not buying hot cereals and would incorrectly target the customer with hot cereals' promotions.

As per claim 14, Sridhar teaches:

The method of claim 11, but fails to teach wherein said marketing strategy includes an UpSell strategy. However, <u>Deaton</u> teaches an UpSell marketing strategy (see column 90, lines 60-67; column 86). Therefore, it would have been obvious to a person of ordinary skill in the art at the time the application was made, to know that <u>Sridhar</u> would include an UpSell marketing strategy, as taught by <u>Deaton</u>. Including this feature in Sridhar would induce customers to expend more, as the customers that expend more money would receive the better offers.

As per claim 15, <u>Sridhar</u> teaches:

The method of claim 11, but fails to teach wherein said marketing strategy includes a CrossSell strategy. However, <u>Deaton</u> teaches a CrossSell strategy (see column 106, lines 11-40; column 109, lines 25-45; column 105). Therefore, it would have been obvious to a person of ordinary skill in the art at the time the application was made, to know that <u>Sridhar</u> would include a CrossSell marketing strategy, as taught by <u>Deaton</u>. <u>Sridhar</u> would use the customers' purchase history to determine the promotions' offers that would induce customers to purchase the promoted products.

As per claim 16, Sridhar teaches:

The method of claim 11, but fails to teach wherein said marketing strategy includes a Reward strategy. However, <u>Deaton</u> teaches a reward marketing strategy (see column 74, lines 19-27). Therefore, it would have been obvious to a person of ordinary skill in the art at the time the application was made, to know that <u>Sridhar</u> would include a Reward marketing strategy, as taught by <u>Deaton</u>. This feature would reward customers that purchase the promoted products.

As per claim 17, Sridhar teaches:

The method of claim 11, but fails to teach wherein said marketing strategy includes a BrandChange strategy. However, <u>Deaton</u> teaches a BrandChange marketing strategy (see column 103, lines 10-16). Therefore, it would have been obvious to a person of ordinary skill in the art at the time the application was made, to know that <u>Sridhar</u> would include a BrandChange marketing strategy, as taught by <u>Deaton</u>. This feature would target customers with incentives to change products' brands.

Claim 19 is rejected under 35 U.S.C. 103(a) as being unpatentable over <u>Sridhar</u> et al (US 2003/0208754).

As per claim 19, <u>Sridhar</u> teaches:

The method of claim 18, but fails to teach wherein said graphical display comprises a bar chart, said graphic elements comprise individual bars of said bar chart, and said movement comprises dragging said bars to lengthen and shorten them and thereby increase and decrease the associated measure of acceptance probability. However, Official Notice is taken that it is old and well known in the computer art to use software programs to create bar charts from input data and adjust said bar charts

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according to a user preference. It would have been obvious to a person of ordinary skill in the art at the time the application was made, to know that if <u>Sridhar</u> sorts the offers acceptance probability in order to determine the products with the largest purchase predictions, <u>Sridhar</u> would also present all the purchase prediction products in a graphic bar chart. The user would be able to adjust the graphic bar chart in the user's computer and would be able to select the products' offers based upon said adjustment.

Response to Arguments

7. Applicant's arguments filed 08/01/2005 have been fully considered but they are not persuasive. The Applicant argues that in Sridhar there is no competition between offers and consequently no reason for a customer-offer score matrix. The Applicant further argues that Sridhar has no reason to compare one customer with another in deciding whom to send offers and Applicant's claimed invention require a plurality of customers and by necessity involve competition amongst the plurality of customers for the plurality of offers. The Examiner answers that the Applicant is arguing about features that are not stated in the claims. Nowhere, in the claims is recited a competition amongst plurality of customers for a plurality of offers. Claim 23 recites generating a customer-offer score matrix and identifying the highest score in said matrix and identifying any customer substantially scoring said highest score and generating a personalized offer distribution list for each said identified customer, wherein the offers associated with said highest score and paired with said identified customer are assigned to said identified customer's personalized offer distribution list and successively repeating said identifying and assigning step for the next highest score in

said matrix. Therefore, claim 23 only assigns offers to a customer where said offers are assign to said customer based upon the probability from highest to lowest that each customer would prefer said offers selected for him or her (see Applicant's specification page 7, lines 21-30). If there is a competition in the Applicant's claimed invention, the competition is in the order (from highest to lowest) that offers would appear in the preselected list of customer's offers that would be streamed or delivered to said customer. Sridhar teaches a customer-based system as defined by Applicant's specification page 7, lines 10-15 where said system streams advertisements to a customer by streaming first to said customers the advertisement with the largest purchase prediction (i.e. "score") from an advertisement list and where said system repeats said selection (i.e. next ad with the highest purchase prediction) until all said advertisements in said list are covered. Therefore, in Sridhar there is a competition of the offers that are going to be presented or streamed to a customer based upon said offers purchase prediction probability score, similar to Applicant's claimed invention.

Conclusion

8. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not

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mailed until after the end of the THREE-MONTH shortened statutory period, then the

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shortened statutory period will expire on the date the advisory action is mailed, and any

extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of

the advisory action. In no event, however, will the statutory period for reply expire later

than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to DANIEL LASTRA whose telephone number is 571-272-

6720. The examiner can normally be reached on 9:30-6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, ERIC W. STAMBER can be reached on 571-272-6724. The Examiner's

Right fax number is 571-273-6720.

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Daniel Lastra

October 13, 2005